

## **<sup>188</sup>Bi**

<sup>188</sup>Bi was first observed in 1980 by Schrewe et al. in “Alpha decay of neutron-deficient isotopes with  $78 \leq Z \leq 83$  including the new isotopes <sup>183,184</sup>Pb and <sup>188</sup>Bi” (1980Sc09). A 4.60 MeV/nucleon <sup>84</sup>Kr beam from the UNILAC accelerator at GSI impinged on an enriched <sup>107</sup>Ag target. <sup>188</sup>Bi was formed in the fusion evaporation reaction <sup>107</sup>Ag(<sup>84</sup>Kr,3n) and stopped in a FEBIAD ion source. Following reionization and mass separation, the ions were implanted into a carbon foil and their  $\alpha$ -decay was recorded. “...alpha lines of 6632 keV and 6820 keV from reactions of <sup>48</sup>Ti on <sup>142</sup>Nd and <sup>84</sup>Kr on <sup>107</sup>Ag were assigned to the new isotopes <sup>184</sup>Pb and <sup>188</sup>Bi, respectively.”

Adapted from reference (2013Fr04)

1980Sc09 U. J. Schrewe, P. Tidemand-Petersson, G. M. Gowdy, R. Kirchner *et al.*, Phys. Lett. B **91**, 46 (1980).

2013Fr04 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152”